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United States
Environmental Protection
Agency

**SAFETY EVALUATION OF
ASTROTECH
PAYLOAD PROCESSING FACILITY
TITUSVILLE, FLORIDA**

AUGUST 1990



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Prepared for:

**U.S. Department of Transportation
Office of Commercial Space Transportation**

and

U.S. Environmental Protection Agency

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LIST OF ACRONYMS

acfm	actual cubic feet per minute
AFB	Air Force Base
AFR	Air Force Regulation
AH	Anhydrous Hydrazine
AICHE	American Institute of Chemical Engineers
AKM	Apogee Kick Motor
ASME	American Society of Mechanical Engineers
ATF	Bureau of Alcohol, Tobacco, and Firearms
BTU	British Thermal Unit
CCAFS	Cape Canaveral Air Force Station
CCPS	Center for Chemical Process Safety
CCTV	Closed Circuit Television
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CPIA	Chemical Propulsion Information Agency
DER	Department of Environmental Regulation
DoD	Department Of Defense
DOT	Department Of Transportation
ECI	Explosive Consultants, Inc.
EED	Electro-Explosive Device
EHS	Extremely Hazardous Substance
ELSA	Emergency Life Support Apparatus
ELV	Expendable Launch Vehicle
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act

ESMC	Eastern Space and Missile Center
ESMCR	Eastern Space and Missile Center Regulation
°F	Degree Farenheit
FEMA	Federal Emergency Management Agency
gpm	gallons per minute
HCl	Hydrogen Chloride
HNO ₃	Nitric Acid
HTH	Calcium Hypochlorite
HVAC	Heating, Ventilating, and Air Conditioning
IDLH	Immediately Dangerous to Life and Health
IR	Infrared
KHB	Kennedy Space Center Handbook
KSC	Kennedy Space Center
kVA	Kilovolt-ampere
kw	kilowatt
LEL	Lower Explosive Limit
LEPC	Local Emergency Planning Committee
LOC	Level of Concern
MIL-STD	Military Standard
MMH	Monomethylhydrazine
MOU	Memorandum Of Understanding
MSHA	Mine Safety and Health Administration
N ₂ H ₄	Hydrazine
N ₂ O ₄	Nitrogen Tetroxide
Na ₂ S	Sodium Sulfide
NaOH	Sodium Hydroxide
NASA	National Aeronautics and Space Administration
NFPA	National Fire Protection Association
NIOSH	National Institute of Occupational Safety and Health

NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
NRC	National Response Center
OCST	Office of Commercial Space Transportation
OSHA	Occupational Safety and Health Administration
PAM	Payload Assist Module
PKM	Perigee Kick Motor
ppb	parts per billion
PPE	Personal Protective Equipment
ppm	parts per million
psia	pounds per square inch actual
RF	Radio Frequency
RSPA	Research and Special Programs Administration
SARA	Superfund Amendments and Reauthorization Act
SCBA	Self-Contained Breathing Apparatus
SERC	State Emergency Response Commission
SOP	Standard Operating Procedure
SRM	Solid Rocket Motor
SRT	Specialized Response Team
STS	Space Transportation System
UN	United Nations